

*BEST COPY
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NEW PHASED DEPLOYMENT CONCEPT (EFFECTIVE 31 AUGUST 1967)

PHASE I DEPLOYMENT

PURPOSE: TO DEPLOY A FORWARD DETACHMENT COVERTLY TO AND FROM A
CRISIS AREA AS FAST AS POSSIBLE.

SCOPE: SINGLE MISSION ONLY. COVERAGE OF CRISIS AREA TARGETS.

PHASE II DEPLOYMENT

PURPOSE: TO DEPLOY ADDITIONAL PERSONNEL AND EQUIPMENT TO THE FORWARD
LOCATION FOR AUGMENTATION OF THE PHASE I DEPLOYMENT PACKAGE.

SCOPE: ADDITIONAL (3-5) MISSION COVERAGE OF CRISIS AREA TARGETS
IF SITUATION DICTATES REPETITION.

PHASE III DEPLOYMENT

PURPOSE: TO DEPLOY A FORWARD DETACHMENT TO AN AREA WHERE SUSTAINED
OPERATIONS WILL BE REQUIRED.

SCOPE: REPETITIVE MISSIONS REQUIRED OVER A PERIOD OF SEVERAL MONTHS.

24" OPTICAL BAR PANORAMIC CAMERA

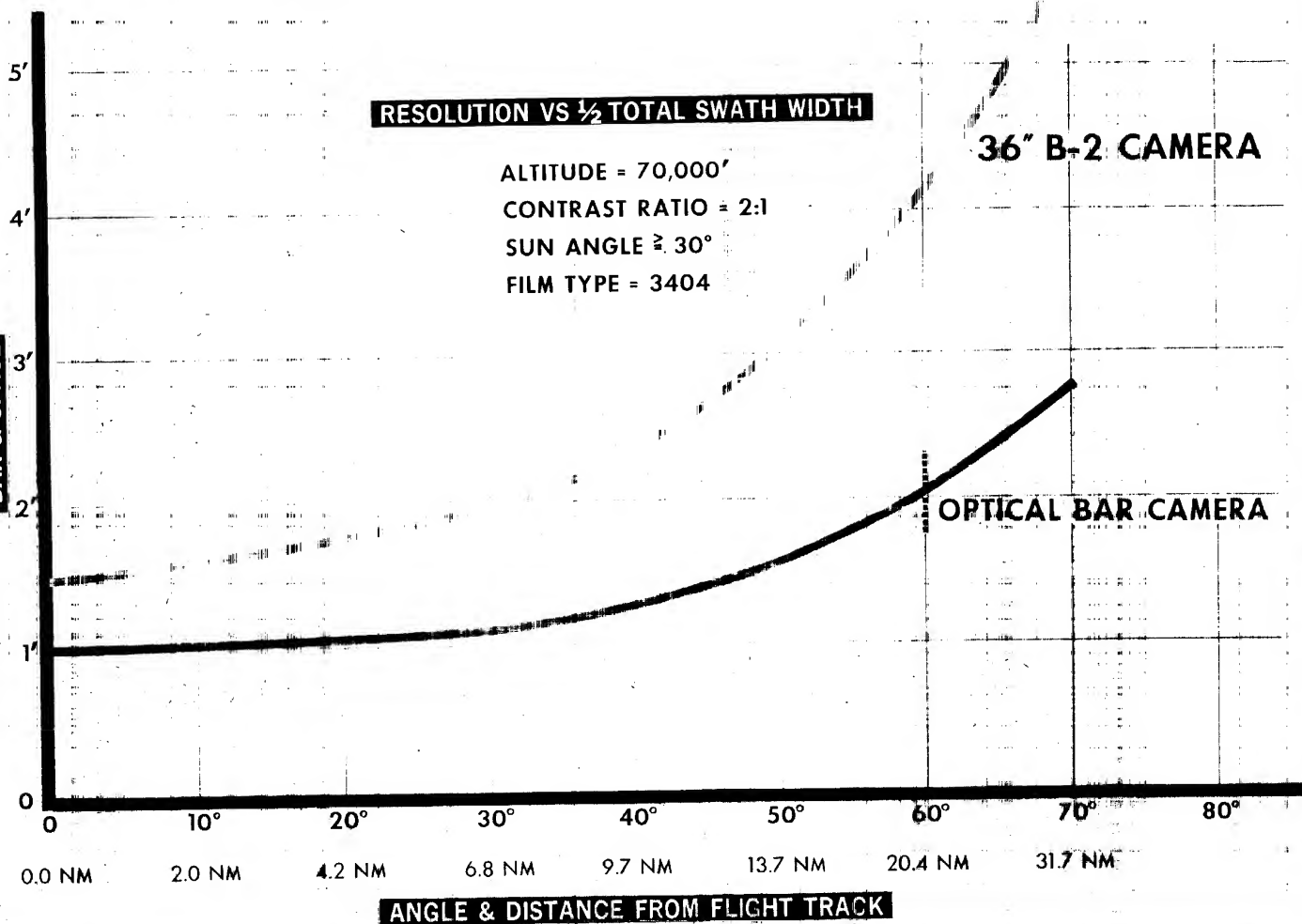
RESOLUTION VS 1/2 TOTAL SWATH WIDTH

ALTITUDE = 70,000'
CONTRAST RATIO = 2:1
SUN ANGLE $\geq 30^\circ$
FILM TYPE = 3404

36" B-2 CAMERA

OPTICAL BAR CAMERA

RESOLUTION
IN FT
BAR & SPACE



TOP SECRET IDEALIST

CHARACTERISTICS IDEALIST CAMERA SYSTEMS

25X1D

PARAMETER	B CAMERA	DELTA III	H CAMERA	IRIS II OPTICAL BAR
LENS FOCAL LENGTH/ APERTURE	36 INCH F/10	24 INCH F/3.5	66 INCH F/7.0	24 INCH F/3.5
SCALE VERTICAL 70,000 ALTITUDE	1/23,400	1/35,000	1/12,720	1/35,000
GROUND RESOLUTION VERTICAL	18 INCHES	12 INCHES	9 INCHES	12 INCHES
WEIGHT WITH FILM	365 LBS.	450 LBS.	617 LBS.	400 LBS.
SWATH WIDTH	HORIZON TO HORIZON	16.1 NM	11 NM AT 70° 1.4 NM AT VERTICAL	63 NM
COVERAGE IN FLIGHT DIRECTION	2062 TO 3440 DEPENDING ON MODE	2700 NM	280 - 1673 NM DEPENDING ON MODE	2200 NM
STEREO	OVERLAP	CONVERGENT 26°	OVERLAP	CONVERGENT 25°
SELECTABLE MODE	YES	NO	YES	YES STEREO OR MONO
AVAILABILITY	CURRENT	CURRENT	CURRENT	CURRENT
FORMAT SIZE	18 X 18 INCHES	2.25 X 29.3 INCHES	4.5 X 4.5 INCHES	4.5 X 58.64 INCHES

25X1C

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1. APPROX 3000 FT INCREASE IN ALTITUDE
2. APPROX 1500 NM MORE ABOVE [REDACTED] 25X1A
3. GREATER ANGLE OF BANK. GREATER VARIANCE IN IAS BETWEEN STALL AND BUFFET AT ALTITUDE.
4. 78 CU FT MORE DISTRIBUTED BETWEEN Q AND E BAY. INCREASED COCKPIT AREA AND NOSE SECTION.
5. REMOVABLE NOSE.

25X1C 6. EXTERNAL RANGE, I.E., FROM [REDACTED] CAN SAVE APPROX 24 HOURS

25X1A 7. DUE TO RANGE, ALTITUDE, MODULAR CONCEPT AND INCREASED CUBE

8. [REDACTED] 33-02416A000300040001-4

TOP SECRET IDEALIST

U-2R SIGNIFICANT FEATURES

- ▶ **HIGHER OPERATING ALTITUDE CAPABILITY**
- ▶ **INCREASED RANGE**
- ▶ **IMPROVED MANEUVERING CAPABILITY AT HIGH ALTITUDE**
- ▶ **REDUCED VULNERABILITY**
- ▶ **INCREASED "Q-BAY" SIZE**
- ▶ **MODULAR PACKAGING CONCEPT**
- ▶ **QUICK REACTION IMPROVEMENT**
- ▶ **IMPROVED GROWTH POTENTIAL**
- ▶ **EMPLACEMENT CAPABILITY**

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EXAMPLE -

U-2 AT 69M	
MIG-21 STALL SPEED AT 69M	1.4
INITIAL MACH AT 46000	2.0
MACH AT 69M	1.58
MACH ABOVE STALL	0.18
TIME (SEC)	72
BEFORE MIG-21 BACK TO STALL SPEED AND MUST	
DESCEND	
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DISTANCE (NM)	

MIG-21 ZOOM CAPABILITY TIME AT ALTITUDE

FINAL ALTITUDE (FT.)	66,000					69,000	
STALL SPEED	1.3					1.4	
INITIAL MACH (46,000 FT.)	1.8	1.85	1.9	1.95	2.0	1.95	2.0
MACH AT ALTITUDE	1.46	1.52	1.57	1.64	1.66	1.54	1.58
TIME (SEC.)	64	88	108	136	144	56	72
DISTANCE (NM)	16	23	28	32	39	15	19

THREAT

FIGHTERS (MIG-21) _____ NEGLIGIBLE

SURFACE-AIR MISSILES _____ RESPECTABLE

COUNTER MEASURES

FIGHTERS (NON AI) _____ TURNS SUBSEQUENT TO SHORT FLIGHT LINES
OR VISUAL AND IR DETECTION

FIGHTERS (AI) _____ SAME AS NON AI PLUS ELECTRONIC DETECTION

SURFACE-AIR MISSILES _____ NO PLANNED OVERFLIGHT OF KNOWN SITES
ELECTRONIC DETECTION
ELECTRONIC JAMMING
EVASIVE TACTICS
ALTITUDE & MANEUVERABILITY

25X1D

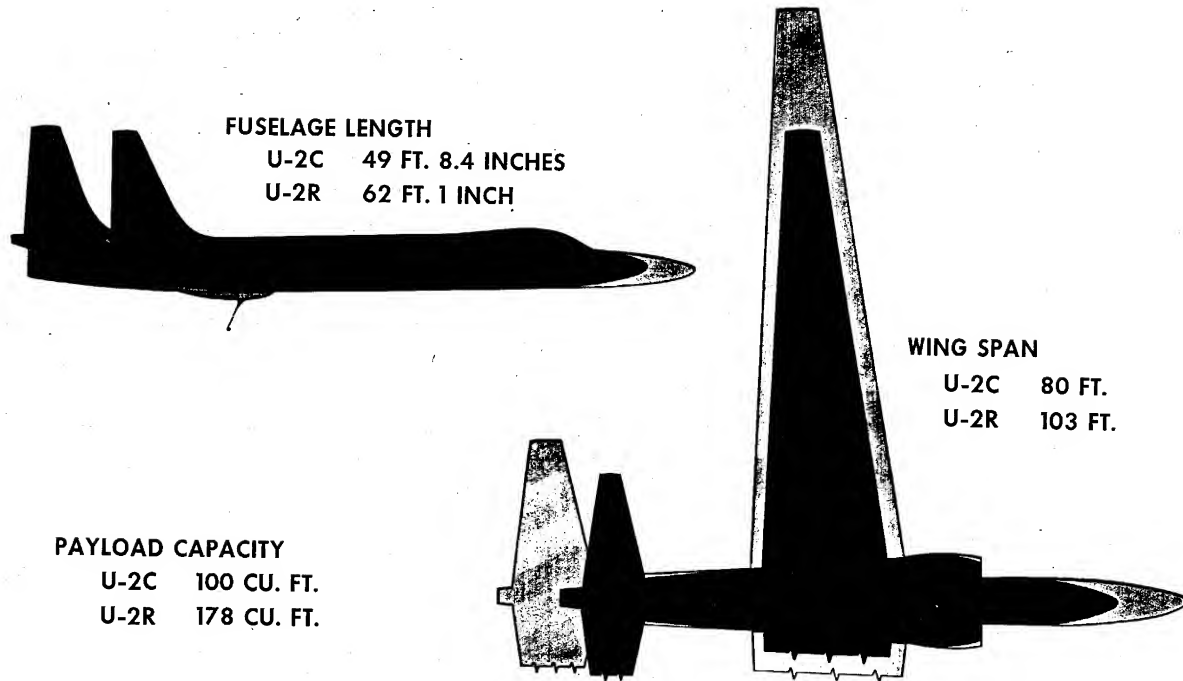
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U-2C/R COMPARISON



U-2C/R

ADDITIONAL PAYLOAD CAPACITY IS A COMBINATION OF Q AND E BAY. LARGER

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COCKPIT AND NOSE

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U-2R PROGRAM**GO-AHEAD****SEPT 1966**

12 AIRCRAFT _____ 6 CIA _____ 6 USAF

PAYLOAD VOLUME INCREASE _____ 78 CUBIC FEET

ALTITUDE INCREASE _____

RANGE INCREASE _____

25X1D

1ST FLIGHT**28 AUGUST 1967**

AIRCRAFT 1 _____ ENGINEERING FLIGHT TEST

AIRCRAFT 2 _____ MISSION EQUIPMENT FLIGHT TEST

AIRCRAFT 3, 4, 5, 6 _____ DELIVERED TO DETACHMENT - TRAINING

ROLL OUT OF AIRCRAFT 12**NOV 1968****FIRST AIRCRAFT DEPLOYMENT****JAN 1969**

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25X1A

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IDEALIST MISSION HISTORY

EARLY EMPHASIS IN THE IDEALIST PROGRAM WAS PLACED ON THE USSR, SATELLITE COUNTRIES, INDONESIA AND THE MID EAST (1956 - 60).

FROM 1960 TO 1962 THE EMPHASIS WAS PLACED ON CUBA AND THE FAR EAST.

STARTING IN LATE 1962 THE EMPHASIS BEGAN TO SHIFT TO CHINA, KOREA AND SEA WHERE IT NOW RESTS.

25X1C

25X1C

TOP SECRET IDEALIST

IDEALIST MISSION HISTORY

	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	TOTAL
U.S.S.R.	5	16	1	1	3	—	—	—	—	—	—	—	—	—				26
SATELLITES	8	4	—	—	—	—	—	—	—	—	—	—	—	—				12
INDONESIA	—	—	31	—	—	—	—	—	—	—	—	—	—	—				31
MID EAST	36	18	58	37	3	—	—	—	—	—	—	—	—	—				152
LAOS/VIETNAM/ CAMBODIA	—	—	—	3	—	8	8	15	19	2	—	—	2	—				57
CUBA	—	—	—	—	5	24	21	—	—	—	—	—	—	—				50
NEFA/NEPAL/ TIBET/CHINA	—	—	3	7	3	—	20	20	16	28	8	14	6	11	6			142
N. KOREA/ MANCHURIA	—	—	—	—	—	—	1	4	2	1	1	—	—	—				9
S. AMERICA	—	—	—	—	—	—	—	6	—	—	—	—	—	—				6
MISC.	—	—	—	—	—	—	—	—	2	—	—	—	—	—				2
ELINT	1	4	12	17	9	—	—	—	—	—	—	—	3	—				46
TOTAL	50	42	105	65	23	32	50	45	39	31	9	14	11	11	6			533

TOP SECRET IDEALIST

HISTORY

1. PRESIDENTIAL APPROVAL _____ DEC 1954
2. FIRST FLIGHT _____ AUG 1955
3. FIRST OVERFLIGHT _____ JUN 1956
4. ADANA, TURKEY _____ SEPT 1956-DEC 1960
5. ATSUGI, JAPAN _____ MAR 1957-JUN 1960
6. EDWARDS AFB, CALIF _____ OCT 1960

25X1A

25X1C

First Overflight - Wiesbaden over Poland

Adana - 200 missions flown by

Atsugi - 52 missions flown by

IDEALIST ASSETS

25X1D

AIRCRAFT

U-2R

U-2 C/G

T-33

U-3

CAMERAS

'B' (HYCON)

'H' (HYCON)

'DELTA III' (ITEK)

IRIS II (ITEK)

25X1D

3 T-33s - 1 U-3 - 1 CESSNA 210

25X1D



CAMERA SYSTEMS

B-2 HORIZON TO HORIZON SEARCH - 5 MODES OF OPERATION, STEREO 9 $\frac{1}{2}$ " FILM. MAX LATERAL COVERAGE 563 NM (MODE 1) 18" RESOLUTION AT NADIR.

DELTA III - TWIN PANORAMIC CAMERA, PIN POINT PHOTOGRAPHY, 16 NM SWATH WIDTH AT 70K FT - 12" RESOLUTION AT VERTICAL.

25X1D



T-35 TRACKING CAMERA - (10 HOURS FILM) 17" RESOLUTION AT NADIR

IRIS II - 60 NM SWATH WIDTH - 2000 NM RANGE - 3' RESOLUTION AT 40° ANGLE (30 NM FROM NADIR) OPTICAL BAR PANORAMIC. 12" AT NADIR.

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**DETACHMENT G
EDWARDS AFB CALIF**

RESPONSIBLE FOR

1. WORLDWIDE STAGING CAPABILITY (PERSONNEL & MATERIEL).
2. FLIGHT TESTING OF NEW EQUIPMENT & SYSTEMS.
3. CONTINUATION TRAINING OF ASSIGNED PILOTS.
4. FLIGHT TESTS AND UPDATING ASSIGNED U-2'S WHEN RETURNED FROM LAC AFTER MODS.

25X1C

6. PROVIDE PERSONNEL AND MATERIEL SUPPORT TO DET H, AS REQUIRED.

25X1C

25X1C

TRAINING OF NEWLY ASSIGNED AGENCY PILOTS

25X1C [REDACTED] IS ACCOMPLISHED AT DETACHMENT "G".

25X1A

AS REQUIRED, TRAINING OF PILOTS IN NEW CONCEPTS, SUCH AS

25X1A

[REDACTED] IS ACCOMPLISHED HERE.

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PROJECT



IDEALIST

TOP SECRET IDEALIST

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OFFICE OF SPECIAL ACTIVITIES MISSION

**TO DEVELOP, ATTAIN AND MAINTAIN
AN OPERATIONAL CAPABILITY TO CONDUCT
MANNED COVERT AERIAL RECONNAISSANCE
OF DENIED AREAS**

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OPERATING LOCATIONS

EDWARDS AFB - MAINTAINS OPERATIONAL STATUS AND PERFORMS TESTING AND TRAINING.

25X1C

[REDACTED] - MAINTAINS OPERATIONAL STATUS. AT PRESENT, MOST CURRENT OPERATIONAL MISSIONS FLOWN FROM HERE.

[REDACTED] - PRESENTLY IN CARETAKER STATUS. CAN BE READILY USED AS A STAGING BASE.

25X1C

25X1C

OTHER BASE PREVIOUSLY USED IN IDEALIST PROGRAM - WIESBADEN - [REDACTED]

ATSUGI - [REDACTED]

ADANA

25X1C

25X1C

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TOP SECRET IDEALIST

PRIMARY MISSION



CONTACT PRINT

PHOTOGRAPHIC AND/OR ELECTRONIC RECONNAISSANCE

10 X ENLARGEMENT



TOP SECRET IDEALIST

MISSION GENERATION

USIB ~~Approved For Release 2001/07/12 : CIA-RDP33-02416A000300040001-4~~
~~UNITED STATES INTELLIGENCE BOARD~~

NRO - NATIONAL RECONNAISSANCE OFFICE

COMIREX - COMMITTEE ON IMAGERY REQUIREMENTS AND EXPLOITATION

USIB	COMIREX	NRO	40 COMMITTEE
DIA	CIA	DIR NRO AND DEP SEC	MR. HELMS - CIA
ARMY	STATE DEPT	OF AF (DR. MCLUCAS)	
NAVY	DIA		MR. PACKARD - DEP SEC FOR
AIR FORCE	NSA	DEP DIR NRO AND DEP	DEFENSE
CIA	ARMY	UNDER SEC OF AF (SPACE	
NSA	AIR FORCE	SYS) (DR. NAKA)	MR. KISSINGER - ASST TO
STATE DEPT	NAVY		PRESIDENT
FBI			
			STATE DEPARTMENT
			REPRESENTATIVE (MR.
			JOHNSON)
			MR. MITCHELL - ATTORNEY
			GENERAL

COMIREX IS A COMMITTEE OF USIB. AFTER REVIEW AND VALIDATION USIB STAMPS APPROVAL. NRO THEN DETERMINES WHO FULFILLS REQUIREMENT. IF CIA DESIGNATED THEY PREPARE "BLACK BOOK". EACH MONTH USIB AND 40 COMMITTEE REAFFIRM REQUIREMENTS AND APPROVE FOUR PERIPHERAL PHOTO MISSIONS IN CHINA, AS REQUIRED IN SOUTH CHINA, AND SPECIAL REQUIREMENTS. A BOOK IS REQUIRED FOR EACH MISSION AND NEEDS ONLY IN-HOUSE APPROVAL IF AGAINST ABOVE REQUIREMENTS. IF NOT, A BOOK IS PREPARED FOR NRO FOR PRESENTATION TO 40 COMMITTEE FOR APPROVAL. MOST OF OUR REQUIREMENTS COME FROM COMIREX, HOWEVER, WE MAY GET THEM FROM OTHER COMMITTEES.

JAEIC - JOINT ATOMIC ENERGY INTELLIGENCE COMMITTEE

25X1A

SIC - SCIENTIFIC INTELLIGENCE COMMITTEE

25X1A
25X1A

25X1A CCPC - CRITICAL COLLECTION PROBLEMS COMMITTEE (MTR REQ)

GMAIC - GUIDED MISSILE AND ASTRONAUTICS INTELLIGENCE COMMITTEE

SIGINT - SIGNAL INTELLIGENCE COMMITTEE (SORS - SIGINT OVERHEAD INTELLIGENCE COMMITTEE IS SUB-COMMITTEE)

25X1D

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IDEALIST/TACKLE MISSION ALERT SEQUENCE OF EVENTS

H-HOUR: MISSION LAUNCH TIME

H-29 HOURS	WEATHER BRIEFING AND MISSION ALERT	25X1C								
H-28½ HOURS *	AGENCY, WHITE HOUSE, STATE DEPARTMENT, NATIONAL SECURITY AGENCY, [REDACTED] JCS/JRC, DETACHMENT MISSION ALERT NOTIFICATIONS									
H-28 HOURS	NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER (NPIC) NOTIFICATION TO COMPLETE SAM SEARCH OF MISSION ROUTE.									
H-17 HOURS	[REDACTED]	25X1C								
H-13 HOURS	FOLLOW-UP MISSION WEATHER BRIEFING AND REVIEW									
H-13 HOURS TO H-9 HOURS	PREPARATION OF BLACK BOOK									
	<div>CONTENTS OF BOOK</div> <table><tr><td>JUSTIFICATION</td><td>OPERATIONAL DATA</td></tr><tr><td>TARGET DATA</td><td>VULNERABILITY ESTIMATE</td></tr><tr><td>PREVIOUS COVERAGE</td><td>ROUTE MAPS (2)</td></tr><tr><td>TARGETS</td><td>WEATHER MAP</td></tr></table>	JUSTIFICATION	OPERATIONAL DATA	TARGET DATA	VULNERABILITY ESTIMATE	PREVIOUS COVERAGE	ROUTE MAPS (2)	TARGETS	WEATHER MAP	
JUSTIFICATION	OPERATIONAL DATA									
TARGET DATA	VULNERABILITY ESTIMATE									
PREVIOUS COVERAGE	ROUTE MAPS (2)									
TARGETS	WEATHER MAP									
H-9 HOURS	RECEIPT OF MISSION VULNERABILITY ANALYSIS BLACK BOOK READY FOR SIGNATURES OF D/SA, DDS&T, DDCI, DCI									
H-5 HOURS	BLACK BOOK APPROVALS									
H-4½ HOURS *	MISSION GO-NO-GO DECISION									
H HOUR	MISSION LAUNCH									

* NOTE: BETWEEN H-28½ HOURS AND H-4½ HOURS TIME IS AVAILABLE FOR MISSION VETO BY PRINCIPALS OF 303 COMMITTEE.

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IDEALIST MISSION NOTIFICATION

ALERT

- ♦ DETACHMENT
- ♦ AGENCY STATION
- ♦ WHITE HOUSE SITUATION ROOM
- ♦ STATE DEPARTMENT
- ♦ NATIONAL RECONNAISSANCE OFFICE
- ♦ PROCESSING FACILITIES
- ♦ REQUEST FOR AIRLIFT
- ♦ JOINT RECONNAISSANCE CENTER

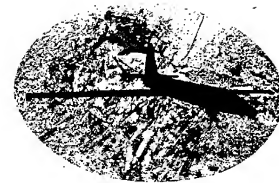
MISSION PLAN

- ♦ DETACHMENT
- ♦ JOINT RECONNAISSANCE CENTER
- ♦ NATIONAL SECURITY AGENCY
- ♦ NATIONAL PHOTO INTERPRETATION CENTER

GO-NO-GO

- ♦ DETACHMENT

MISSION GENERATION



REQUIREMENTS

ORIGINATED BY MEMBERS OF INTELL COMMUNITY AND SENT TO COMIREX

COMIREX _____ REVIEWS REQUIREMENT AND VALIDATES

USIB _____ APPROVES FINDINGS OF COMIREX

NRO _____ DETERMINES TYPE VEHICLE AND RESPONSIBLE AGENCY TO
FULFILL REQUIREMENT

CIA OR JRC _____ ACTION AGENCY AS DESIGNATED BY NRO

MISSION PROPOSALS

CIA (OSA) _____ PREPARES BLACK BOOK TO INCLUDE STATEMENT OF REQUIREMENT,
CONCEPT OF OPS, TYPICAL ROUTE, AOB, ROB, EOB AND
ANY OTHER PERTINENT INFORMATION DEEMED NECESSARY.

303 COMMITTEE _____ APPROVE OR DISAPPROVE BLACK BOOK PROPOSAL AFTER CIA AND
NRO HAVE APPROVED.

MISSION PLAN

FINALIZATION OF APPROVED MISSION PROPOSALS

1. UPON RECEIPT OF 303 COMMITTEE APPROVAL, MISSION(S) DRAWN UP BY IDEALIST STAFF AND NECESSARY MESSAGES PREPARED AND TRANSMITTED TO DESIGNATED DET.
2. DAILY WEATHER BRIEFINGS.
3. EXECUTIONS
 - ALERT MSG _____ T/O MINUS 24 HRS
 - MISSION PLAN MSG _____ T/O MINUS 12 HRS
 - GO-NO-GO (APPROVAL) MSG _____ T/O MINUS 2 HRS
4. CONTROL OF MISSION IN PROGRESS BY RESPONSIBLE DETACHMENT.
5. MONITORING ACCOMPLISHED BY PROJECT HQS IN CONTROL ROOM.

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